

HOW DID LIFE ON EARTH BEGIN?

IT MAY HAVE COME FROM THE STAR SPACES

BY PROFESSOR
WILHELM BOELSCHLE



"LONG BEFORE MAN APPEARED
THIS ROYAL MOUNTAIN UNI-CELLS
MADE THE STONE"

BY PROF. WILHELM BOELSCHLE.
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If intelligent eyes watch the earth from any distant planet they must gain their direct knowledge, first of all, through the light that the earth planet sends to them. The great mass of this light is, of course, reflected sun light. But the earth also sends out a light from the side that is turned from the sun, when it is not illuminated even by the moon.

This is light of two kinds: First, light caused by great mechanical causes, such as Northern lights, lightning, star showers, and the red gleams of active volcanoes. The second sort of light is more mysterious, it is light that depends on the existence of organic creatures.

The distant observer might perceive the great cities of man as faint misty stars—the work of man, the height of all organic development on earth. But long before that he would probably have been something more remarkable, he would have seen a diffused pale light, phosphorescent, hovering over vast areas. What caused these fireworks?

Single-celled things—uni-cells, creatures of the order of the atoms of the ocean, which, strictly only microscopic bits of mucus, illumine the oceans by their myriads.

VISIBLE TO FAR STARS.
The distant observer, then, would see the works of the two great opposites of world-life.

This kingdom of the minute, the kingdom of the bacilli, is truly great enough to make its effects seen afar through the

universe. Like a sand-form that threatens to bury mankind, it sweeps over humanity.

And in this bacilli are traits that point to a life from beyond the limits that are drawn on earth for other forms of life. Everywhere we see the true vegetable, the true animal life, limited to certain poles of temperature. In the terrible Polar cold life gradually ceases. In boiling water life ends.

While the earth still was red hot in its interior, the picture life as absent from it. In the great glacial periods, it must have been destroyed in great areas of the earth.

In the icy universe, in the star spaces, or on a planet for which no sun shines, we imagine again that life is totally extinct.

Yet certain bacilli withstands intense temperature that destroys the vital albumen entirely.

This fact furnishes much food for thought. Involuntarily we are led to connect it with the primordial existence of these uni-cells.

The entire world of plants and animals shows a one-sided adaptation to certain conditions, with death as the result of any violent change. But the tough bacilli faces us like an arch-form of life that is far superior to these limits. It enables us to imagine a life that does not know any limits to temperature at all.

IS INTERNAL EXISTENCE POSSIBLE?
This would be a life corresponding to the life speculated on by Fechner, who advanced the idea of an existence that



"FROM THIS FLINT THE FIRST MAN
FASHIONED THE FIRST IMPLEMENTS"

lms adapted itself through the eons to all the changes of temperatures and is as eternal as the motion that is the cause of all warmth.

The bacilli of today that can withstand 120 degrees Celsius of cold may be capable of existence in the ever-frozen space of the universe even now—the "universe cold" that rules between the planets

between us and the moon, between us and Mars and between the sun and its red double star.

Such a bacilli gives point to the theory of Humboldt, that life never began on earth through birth on earth, but that it reached this planet through some agency that brought it out of the universe in the right moment, when the col-

ing earth offered the proper conditions.

He suggested that such an agency might have been a meteoric stone, carrying the primordial germ of life in a fissure.

We need not fall back on the meteoric stone. We have it in the presence of bacilli that can bear 100 degrees Celsius and more of cold.

We might ask if the earth in its daring flight around the sun does not at times cut through meteoric storms? If it cuts through meteoric storms? If it cuts through meteoric storms? If it cuts through meteoric storms?

These are dreams. Yet it is undeniable that there is something weird about the properties of bacilli, something that points at one and the same time to the oldest existence on earth and to the last living thing man.

BACTERIA MARSHES BEYOND CONCEPTION.

Max Schultze counted 120,000 lime shells of certain uni-cells in thirty grammes of sand. Now, remind yourself that thousands of square miles of the ocean are one single, compact layer of gray mud, and that this gray mud consists practically of nothing except such shells.

The whole bottom of the North Atlantic ocean from Greenland to the Azores is so formed. It is the so-called plateau, and over its entire breadth, from the British to the American coast, lies this mud.

We marvel at the Cheops pyramid as a gigantic achievement of man. Yet long before man appeared this royal mountain,

uni-cells made the stone that was used by man afterward.

They did not merely furnish material enough for pyramids. The limestone, into which they finally changed, lies over the whole earth, now as hospitable deserts, then as beautiful Bluevas, as mighty cloud-capped mountains, from the western ocean to the Sahara and across the Caucasus to the Himalayas; yes, across India, Borneo and Java into the Philippines and beyond them over the Pacific ocean. And as the ancient culture built its wonders of pyramids from their deposits, so the modern culture has built its Paris, its New York, from the remains of dead uni-cells. Barbed wire is one mass of them. Vast quantities of them are the chalk cliffs that gleam so picturesquely against blue seas.

And in this chalk is baked the firestone, flint, the most important element in the history of the culture of man.

A GERM GAVE MAN FIRE.

From this flint the first man fashioned the first implements and weapons; the spark that was made by it accidentally in striking it against a piece of iron ore gave him the artificial fire. So the uni-cell became the veritable Prometheus of humanity.

When man appeared first upon the earth, times primeval, he was literally submerged in representatives of the realm of the single-celled creatures. Every breath, every drop of water was filled with them. As a few scattered peaks stick out of an ocean, so the few sparse types of true plants and animals appeared in the midst of uni-cells.

From the beginning, the mass of these uni-cells met man not as enemies but as friends—that is, they did their work without considering man, but in a direction that served him.

When he became an agriculturist, this bacilli increased immeasurably, for the bacteria improved his earth, helped his plants, and ruled mysteriously while he plowed and dug.

Now, in gray times primeval, long, long before man or the thing that was to become man, "life" must have appeared for the first time, in the Cambrian epoch, in whose deepest layers we perceive the first fossil remains of the earth's story.

All theories unite on the one that the oldest living things of that time were uni-cells. Whether or not they were uni-cells like our present bacteria is of comparatively little importance. The main thing is that they were single-celled things.

THE TRIUMPH OF THE CELL.

And it is established, too, how the gathering of certain uni-cells into a group first produced the living thing with separate functions—the cell-community.

The cell-community was the first great progress, the first great development in the featureless space of time.

And through many strange fortunes, by many wild and mysterious ways, passing through countless shapes, fearful, horrible and weird, man, the height of development, emerged from that dim, forgotten first gathering of shapeless clumps—man with the centralizing brain that the cell-creature plant does not possess at all, that the cell-creature beast has in only faintly developed.

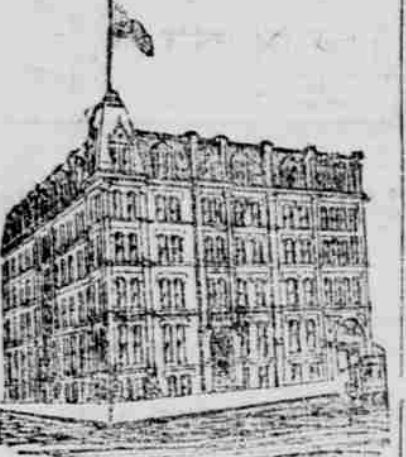
And yet this human brain is nothing other than a cell-community in the cell community man.

TORTOISE STEED.

No sixty-mile-an-hour automobile or wild Arabian was for this gentleman. He much prefers deliberate and unhurried slow travel via tortoise-back. The man in question is an animal trainer in a German menagerie, and his specialty is educating huge South Sea Island tortoises for racing purposes. Not that they are designed to repeat the proverbial competition with the hare, but to strive with one another. His method is to mount the shell of one of these huge creatures and urge it on to a designated goal by holding before its expectant beak a bunch of fresh and tempting lettuce, or other vegetable particularly pleasing to the tortoise palate.

Manila has a total population of something like 300,000, about 10,000 being American and European born. The American population is estimated at about 6,000.

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